

# Global Semiconductor Rapid Thermal Treatment Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semiconductor Rapid Thermal Treatment Equipment market size is expected to reach \$ 1250 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Semiconductor Rapid Thermal Treatment Equipment are wafer processing systems used to rapidly heat and cool semiconductor wafers under precisely controlled temperature and atmosphere conditions. The equipment is mainly used for rapid thermal annealing, dopant activation, rapid thermal oxidation, silicidation, defect repair, and interface modification. It improves wafer electrical performance, process uniformity, device reliability, and thermal budget control in advanced semiconductor manufacturing. The industrial chain of Semiconductor Rapid Thermal Treatment Equipment includes upstream suppliers of heating lamps, temperature sensors, quartz chambers, wafer handling robots, vacuum systems, gas delivery modules, power supplies, control software, and precision mechanical components. Midstream manufacturers integrate thermal processing chambers, wafer transfer systems, gas control units, temperature control algorithms, process recipes, and safety monitoring modules into complete equipment. Downstream applications include logic chips, memory chips, power semiconductors, image sensors, compound semiconductors, and advanced packaging processes. Supporting services include installation, calibration, process development, spare parts supply, maintenance, and equipment upgrading. In 2025, global Semiconductor Rapid Thermal Treatment Equipment production reached approximately 293 units, with an average global market price of around US\$2,800,000 per unit. The gross profit margin of major companies in the industry is between 40%-60%. In 2025, the global production capacity of semiconductor rapid thermal treatment equipment was approximately 419 units.

The Semiconductor Rapid Thermal Treatment Equipment market is driven by advanced logic, memory, power semiconductor, compound semiconductor, and advanced packaging manufacturing. As semiconductor device structures become more complex and thermal budgets become tighter, rapid and precise thermal processing is increasingly important for dopant activation, defect repair, interface control, and thin-film property optimization. Demand is also supported by wafer fab expansion, AI chips, high-performance computing, 5G communications, and electric vehicle power devices. Equipment suppliers are improving temperature uniformity, ramp rate control, process repeatability, chamber cleanliness, and automation compatibility. Localization of semiconductor equipment supply chains is also creating new opportunities in Asia. Overall, the market is expected to maintain stable growth, supported by fab investment, process node upgrades, and the rising importance of precise thermal management in semiconductor manufacturing.

This report studies the global Semiconductor Rapid Thermal Treatment Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Rapid Thermal Treatment Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Rapid Thermal Treatment Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Rapid Thermal Treatment Equipment total production and demand, 2021-2032, (Units)

Global Semiconductor Rapid Thermal Treatment Equipment total production value, 2021-2032, (USD Million)

Global Semiconductor Rapid Thermal Treatment Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Rapid Thermal Treatment Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor Rapid Thermal Treatment Equipment domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Rapid Thermal Treatment Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) &

(Units)

Global Semiconductor Rapid Thermal Treatment Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Rapid Thermal Treatment Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor Rapid Thermal Treatment Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Applied Materials, Inc., Veeco Instruments Inc., CVD Equipment Corporation, Surface Science Integration, Inc., Allwin21 Corp., Annealsys SAS, Centrotherm International AG, UniTemp GmbH, SCREEN Semiconductor Solutions Co., Ltd., ADVANCE RIKO, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Rapid Thermal Treatment Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor Rapid Thermal Treatment Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Rapid Thermal Treatment Equipment Market, Segmentation by Type:

Light -based

Laser -based

Global Semiconductor Rapid Thermal Treatment Equipment Market, Segmentation by Wafer Handling Method:

Single-wafer Rapid Thermal Processing Equipment

Batch Rapid Thermal Processing Equipment

Global Semiconductor Rapid Thermal Treatment Equipment Market, Segmentation by Maximum Wafer Diameter Class:

Laboratory RTP/RTA Equipment, Maximum Wafer Diameter ≤100 mm

150 mm RTP/RTA Equipment, Maximum Wafer Diameter >100?150 mm

200 mm RTP/RTA Equipment, Maximum Wafer Diameter >150?200 mm

300 mm RTP/RTA Equipment, Maximum Wafer Diameter >200?300 mm

Global Semiconductor Rapid Thermal Treatment Equipment Market, Segmentation by Application:

IC Wafer

LED Wafer

Compound Semiconductor

Power Component

Other

#### Companies Profiled:

Applied Materials, Inc.

Veeco Instruments Inc.

CVD Equipment Corporation

Surface Science Integration, Inc.

Allwin21 Corp.

Annealsys SAS

Centrotherm International AG

UniTemp GmbH

SCREEN Semiconductor Solutions Co., Ltd.

ADVANCE RIKO, Inc.

NAURA Technology Group Co., Ltd.

Beijing E-Town Semiconductor Technology Co., Ltd. / Mattson Technology, Inc.

Larcom Semiconductor Equipment (Shanghai) Co., Ltd.

Premtek Corporation

Giant-Tek Semiconductor Technology Co., Ltd.

Guangdong SINDIN Intelligent Equipment Co., Ltd.

Key Questions Answered:

1. How big is the global Semiconductor Rapid Thermal Treatment Equipment market?
2. What is the demand of the global Semiconductor Rapid Thermal Treatment Equipment market?
3. What is the year over year growth of the global Semiconductor Rapid Thermal Treatment Equipment market?
4. What is the production and production value of the global Semiconductor Rapid Thermal Treatment Equipment market?
5. Who are the key producers in the global Semiconductor Rapid Thermal Treatment Equipment market?
6. What are the growth factors driving the market demand?

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